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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,504	08/29/2001	Shean-Guang Chang	BEAS-01063US1	9220
23910 75	590 06/08/2006		EXAMINER	
FLIESLER MEYER, LLP FOUR EMBARCADERO CENTER			SHINGLES, KRISTIE D	
SUITE 400	NOTIFIER OBTAIN		ART UNIT	PAPER NUMBER
SAN FRANCISCO, CA 94111			2141	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/942,504	CHANG ET AL.
Office Action Summary	Examiner	Art Unit
	Kristie Shingles	2141
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status .		
Responsive to communication(s) filed on <u>07 Ap</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-30 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.	
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9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

DETAILED ACTION

Response to Amendment
No claims have been amended.

Claims 1-30 are pending.

Response to Arguments

1. Applicant's arguments, see Remarks pages 9-11, filed 4/7/2006, with respect to the rejection of claims 1-30 under 35 U.S.C. 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground of rejection is made in view of *Chiang et al* (US 6,594,277) and *Jin et al* (US 2005/0111360).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. <u>Claims 1-11, 14-18 and 21-24</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over *Chiang et al* (US 6,594,277) in view of *Jin et al* (US 2005/0111360).
- a. **Per claim 1**, *Chiang et al* teach the system for providing two qualities of service from a single data stream, comprising:

- a storage space for storing at least one of a first quality of service choice and a second quality of service choice for each of a plurality of users (col.3 lines 43-60);
- a processor programmed to direct the data stream for each user according to that user's quality of service choice (col.5 line 26-col.6 line 18);
- multicasting apparatus for receiving the data stream from the processor and multicasting the data stream to each user for which the first quality of service choice is stored in said storage space (col.4 lines 15-65); and
- a point-to-point device for receiving the data stream from the processor and ensuring that each user for which the second quality of service is stored in said storage space receives the data stream (col.5 lines 26-60).

While *Chiang et al* does teach determination means that refers to the database in order to determine the associated QoS parameters to use when transmitting the data to a particular user (col.4 lines 15-65). *Jin et al* explicitly teaches that the user with different QoS levels will be serviced according to their associated QoS stored in the user's service profile (page 2 paragraphs 0020-0022 and 0025). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of *Chiang et al* and *Jin et al* for the purpose of providing a storage space for maintaining the type quality of service specific to each user; because maintenance of the user's particular quality of service is critical in effectively providing the selected quality of service to the user.

- b. Claims 8, 15 and 21-24 contain limitations that are substantially equivalent to claim 1 and are therefore rejected under the same basis.
- c. **Per claim 2,** Chiang et al and Jin et al teach the system according to claim 1, Chiang et al further teach the system further comprising a listener adapted to listen for information sent in the data stream to one of the users of the system (col.4 lines 15-24, col.5 lines 10-53, col.6 lines 5-18; Jin et al: page 2 paragraphs 0024-0025, page 3 paragraphs 0032-0035).

- d. Claims 10 and 17 are substantially similar to claim 2 and are therefore rejected under the same basis.
- e. **Per claim 3,** Chiang et al and Jin et al teach the system according to claim 1, Chiang et al further teach the system further comprising a single API for providing instructions to the processor for both qualities of service (col.5 lines 16-26).
- f. Per claim 4, Chiang et al and Jin et al teach the system according to claim 1, Chiang et al further teach the system further comprising a thread of execution for each user selecting the multicast quality of service, the thread of execution listening on the user's behalf for a message on the multicast stream then delivering the message to the user (col.4 lines 15-24, col.5 lines 10-53, col.6 lines 5-18; Jin et al: page 2 paragraphs 0020-0022 and 0024-0025, page 3 paragraphs 0032-0035).
- g. Per claim 5, Chiang et al and Jin et al teach the system according to claim 2, Jin et al further teach the system further comprising a queue for each listener, allowing a user to receive messages for both qualities of service (page 2-3 paragraph 0026 and 0033-0035).
- h. Claims 11 and 18 are substantially similar to claim 5 and are therefore rejected under the same basis
- i. **Per claim 6,** Chiang et al and Jin et al teach the system according to claim 1, Jin et al further teach the system wherein said storage space may store separate choices for each user for multiple data streams (page 3 paragraphs 0033-0035).
- j. Per claim 7, Chiang et al and Jin et al teach the system according to claim 1, Jin et al further teach further comprising a filtering device allowing a user to filter out certain messages in the data stream (page 3 paragraphs 0035).

- k. Claims 9, 14 and 16 are substantially similar to claim 7 and are therefore rejected under the same basis.
- 4. <u>Claims 12, 13, 19, 20 and 25-30</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over *Chiang et al* (US 6,594,277) in view of *Jin et al* (US 2005/0111360) in further view of *Baum et al* (US 6,850,495).
- a. **Per claim 12,** Chiang et al and Jin et al teach the method according to claim 8, yet fail to further explicitly teach the method further comprising the step of tagging each message with a sequence number so that a user can tell if a message has been missed. However, Baum et al teach the use of sequence numbers in packet transmission for flow and error control (col.2 lines 25-45, col.3 line 66-col.4 line 16 and col.5 line 5-col.6 line 9).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of *Chiang et al* and *Jin et al* with *Baum et al* for the purpose of providing sequence numbers in packet messages in order to insure the proper reassembly of the packets at the receiving end. Utilizing sequence numbers in packet transmission protocols is a common and well-known technique in the art for providing flow and error control indicia.

- b. Claim 19 is substantially similar to claim 12 and is therefore rejected under the same basis.
- c. **Per claim 13,** Chiang et al and Jin et al teach the method according to claim 8, yet fail to further explicitly teach the method further comprising the step of tagging each message so that a user can tell the data stream from which the message was received. However,

Baum et al teach the use of sequence numbers in packet transmission for flow and error control (col.17 lines 20-62, col.19 line 16-col.20 line 21 and col.23 line 25-col.24 line 12).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Chiang et al and Jin et al with Baum et al for the purpose of providing sequence numbers in packet messages in order to insure the proper reassembly of the packets at the receiving end. Utilizing sequence numbers in packet transmission protocols is a common and well-known technique in the art for providing flow and error control indicia.

- d. Claim 20 is substantially similar to claim 13 and is therefore rejected under the same basis.
- Per claim 25, Chiang et al and Jin et al teach the method according to claim 8, e. yet fail to further explicitly teach the method wherein the step of ensuring that the user receives the message includes receiving a response which delivers an acknowledgement of the receipt of data from that user. However, Baum et al teach acknowledgement that are sent back from the receiving user (col.2 lines 25-31, col.4 lines 9-16).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Chiang et al and Jin et al with Baum et al for the purpose of sending messages that acknowledge the receipt of data. Acknowledgement messages are commonly used in the art to ensure the receipt of messages at the receiving terminal or destination.

f. Claims 26-30 are substantially similar to claim 25 and are therefore rejected under the same basis.

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure: Hayball et al (6,959,335), Cook (6,697,806), Gnesda et al (6,721,554), Bearden et al

(6,871,233), Hitzeman (6,760,312), Hattori et al (6,094,674).

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kristie Shingles whose telephone number is 571-272-3888. The

examiner can normally be reached on Monday-Friday 8:30-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

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Kristie Shingles Examiner

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